REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN INFORMATION TECHNOLOGY IN EDUCATION (MSc[ITE])

(See also General Regulations)

Any publication based on work approved for a higher degree should contain a reference to the effect that the work was submitted to the University of Hong Kong for the award of the degree.

Ed216 Admission requirements

To be eligible for admission to the courses leading to the degree of Master of Science in Information Technology in Education, candidates shall

(a) comply with the General Regulations;
(b) hold *either* a Bachelor's degree of this University or of another University or comparable institution accepted for this purpose; *or* another qualification of equivalent standard accepted for this purpose; and
(c) satisfy the examiners in a qualifying examination, if required.

Ed217 Qualifying examination

(a) A qualifying examination may be set to test the candidates' formal academic ability or their ability to follow the courses of study prescribed;
(b) Candidates who are required to satisfy the examiners in a qualifying examination shall not be permitted to register until they have satisfied the examiners in the examination.

Ed218 Award of degree

To be eligible for the award of the degree of Master of Science in Information Technology in Education, candidates shall

(a) comply with the General Regulations; and
(b) complete the curriculum and satisfy the examiners in accordance with the regulations set out below.

Ed219 Length of curriculum

The curriculum shall normally extend over one academic year of full-time study or two, but no more than four consecutive academic years of part-time study, with a minimum of 300 hours of prescribed work.

Ed220 Completion of curriculum

To complete the curriculum, candidates shall

(a) follow instructions on the syllabuses prescribed and complete all specified work as required;
(b) satisfy the examiners in all forms of assessment as may be required;
(c) complete and present a satisfactory dissertation if required on an approved subject; and
(d) satisfy the examiners in an oral examination if required.

Candidates who have failed to complete the curriculum and satisfy the examiners in accordance with this set of regulations within the prescribed length of study may be recommended for discontinuation of studies under the provisions of General Regulation G12.

Ed221 Dissertation

(a) Candidates who select the dissertation option must submit the title of their dissertation for approval not later than six months before the formal submission of the dissertation.
(b) Part-time candidates who have satisfied the examiners in at least four taught modules are eligible to register for the dissertation modules.
(c) Candidates enrolled for the dissertation shall submit a statement that the dissertation represents their own work undertaken after registration as a candidate for the degree.
(d) The examiners may also prescribe an oral examination for candidates enrolled for the dissertation on the subject of the dissertation.
(e) Candidates who select the dissertation option are not permitted to take the module "MITE6322 Independent project (1 module)" and vice versa.

Ed222 Examinations

(a) An assessment of the candidates' performance during the years of study may include written assignments, tests, laboratory and practical work as prescribed by the course;
(b) Candidates who have failed to satisfy the examiners in any part of the examinations at the first attempt may be permitted to present themselves again for examination as determined by the Board of Examiners;
(c) Candidates who have presented a dissertation which has failed to satisfy the examiners at the first attempt may be permitted to re-present the dissertation within a period of not more than 12 months after it is deemed unsatisfactory.

Ed223 Examination results

Results will be published at the conclusion of the examinations. Candidates who have shown exceptional merit may be awarded a mark of distinction, and this mark shall be recorded in the candidates' degree certificate.

Ed224 Discontinuation

Candidates who have failed to satisfy the examiners upon the re-examination of a module or re-presentation of a dissertation may be recommended for discontinuation of studies under the provisions of General Regulation G12.

Ed225 Advanced standing

(a) Advanced standing shall normally be granted to candidates who have successfully completed one or more modules in the Postgraduate Certificate in Advanced Educational Studies (PCAdvEdStud) programme of this University **or** another qualification of equivalent standard accepted for this purpose.
(b) Credit of up to the equivalent of three modules may be granted by the Board of the Faculty of Education subject to the following conditions:
    (i) the modules are appropriate and cover similar content to modules offered in the MSc(ITE); and

(ii) the application for credit is received within five years of successful completion of the relevant modules or graduation from the Postgraduate Certificate in Advanced Educational Studies or another qualification of equivalent standard accepted for this purpose, whichever is later.

(c) Application for advanced standing shall normally be made at the same time of application for admissions to the MSc(ITE) programme, and should be accompanied by copies of academic transcripts to support the application.

SYLLABUSES FOR THE DEGREE OF MASTER OF SCIENCE IN INFORMATION TECHNOLOGY IN EDUCATION

The programme will take the form of modules. Candidates are required to choose a specialist strand upon enrollment in the programme.

All candidates are required to complete a total of 8 modules which comprise the following modules:

- 3 core modules
- 2 modules from a specialist strand plus either of the following:
  - MITE6322. Independent project (1 module) and 2 elective modules; or
  - MITE6810. Dissertation (3 modules)

CORE MODULES

Candidates are required to complete 3 core modules:

MITE6023. Information technology and educational leadership (1 module)

This module provides students with the necessary knowledge and working methods to implement local IT policies and strategies at the institutional level. The module offers a comparative perspective for benchmarking local and international practices and identifies contemporary leadership issues concerning the implementation of IT in education across multiple levels.

MITE6024. Teaching and learning with information technology (1 module)

This module provides a comprehensive introduction to the use of IT for teaching and learning. Topics range from traditional applications e.g., computer-based tutorials to more contemporary applications such as the use of learning objects, cognitive tools and collaborative technologies. The module highlights theories of learning underpinning technology integration and the educational contexts within which these are intended to be used.

MITE6025. Methods of research and enquiry (1 module)

This module introduces students to research methods, emphasizing critical appraisal and an understanding multiple approaches to conducting research. The module also examines the conceptualization, planning and conduct of small-scale research in the integration of IT in educational settings.

SPECIALIST MODULES

Candidates are required to complete two modules from the list for their chosen specialist strand:

A. E-leadership
   1. Digital culture and educational practice
   2. Innovative practices in education through information technology adoption
   3. Organizational learning

B. E-learning
   1. Modeling and simulation in education
   2. E-learning strategies and management
   3. Learning design and technology
   4. Computer supported collaborative learning

C. Learning technology design
   1. Multimedia in education
   2. Designing shared virtual environments for learning
   3. Learning objects
   4. Learning design and technology

ELECTIVE MODULES

Candidates are required to complete elective modules from a list to be determined yearly. The list may contain relevant modules from other master programmes offered by the Faculty of Education under the advice and approval of the Programme Director. The list of elective modules offered by the programme includes:

MITE6304. Designing shared virtual environments for learning (1 module)

This module provides an introduction to current leading-edge work on shared virtual environments for learning (SVEL) through a variety of reflective experiences in these environments. The module explores various theories underlying the pedagogy and content of SVEL as well as the implication and impact of web 2.0 technology on the design of virtual environments for learning. The module offers students opportunities to design and implement their own SVEL, based on sound pedagogic principles and to describe and illustrate appropriate strategies for their evaluation.

MITE6305. Digital culture and educational practice (1 module)

This module explores the impact of digital technologies on society, the community and the individual. It examines ways in which IT has affected global and local communities and cultures, home, leisure, work and educational practices as well as our understandings of ourselves. Issues related to the evolution and impact of cyber-communities on adolescents and traditional educational communities will also be examined.

MITE6306. Modeling and simulations in education (1 module)

This module introduces the use of modeling and simulations for teaching and learning. In addition to exploring different types of simulation and modeling tools, the module will examine different pedagogical strategies in using them.

MITE6310. Innovative practices in education through information technology adoption (1 module)

This module explores innovative practices in education through the integration of IT. The module investigates in detail case studies collected from around the world to examine concepts and models of what constitutes innovative practice in a variety of educational settings. The module examines the proposition that technology can act as a lever for innovation and change in education.

MITE6311. e-Learning strategies and management (1 module)

This module explores issues relevant to the design and delivery of e-learning in educational or corporate contexts. The module explores learning management systems and other virtual environments to support teaching and learning. The module also examines issues concerning e-learning infrastructure, delivery systems, content management, standards, proprietary versus open-source software, virtual worlds, and challenges to successful e-learning implementation.

MITE6322. Independent project (1 module)

The independent project provides students with an opportunity to apply and extend their knowledge and skills developed through the programme and more specifically within their chosen area of specialism. The independent project enables students to extend what they have learnt in the programme to professional practices outside the University.

MITE6328. Organizational learning (1 module)

This module explores the concept and processes of organizational learning. It examines the strategies and tools employed in creating and managing a learning organization. Topics include managing chaos and complexity, organizational culture and change management, scenario planning, training and learning (especially e-learning), unlearning, organizational memory, performance and evaluation of learning.

MITE6329. Multimedia in education (1 module)

This module examines methods for sourcing, selecting, using, adapting and evaluating educational multimedia. The module also explores processes and tools for designing and developing educational multimedia products.

MITE6330. Learning design and technology (1 module)

This module examines instructional design models and systematic approaches to design of learning environments and resources. The module introduces instructional design from a theoretical perspective as well as providing students with an opportunity to examine the stages of learning product development. The module aims to create a bridge between traditional approaches to instructional design and more contemporary approaches that involve the use of interactive and collaborative learning environments and tools.

MITE6331. Computer supported collaborative learning (1 module)

This module explores applications of Computer Supported Collaborative Learning (CSCL) that are used to facilitate learning how to learn and inquiry-based activities. The module also examines the theory and current classroom practices such as knowledge building, and provides a broad overview of technology tools that support CSCL.

MITE6332. Learning objects (1 module)

This module explores the design and development of learning objects (LO) to support teaching and learning. LOs are also examined as a strategy for effective management and delivery of institutional educational resources. The module explores different forms of LOs and examines processes of their design. Students will engage in practical activities, using software tools to develop LOs, and strategies for repurposing their use. The module addresses relevant theoretical issues including multimedia learning and cognitive processing of multimodal information.

MITE6810. DISSERTATION (3 modules)

The dissertation is an approved independent research/development project carried out under the supervision of one or more staff members. While the dissertation is not necessarily a piece of original research, in all cases it should include an empirical element. The dissertation should provide a thorough and critical analysis of the topic undertaken by the student. Each candidate shall submit the title of the dissertation and present the completed dissertation by dates specified by the Board of Examiners. Candidates who opt to take the dissertation option are required to present their work at a dissertation seminar.